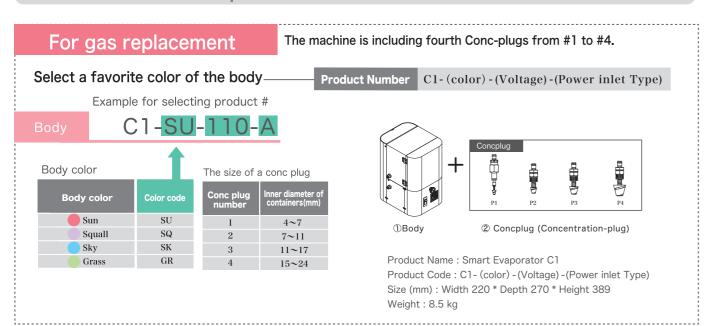
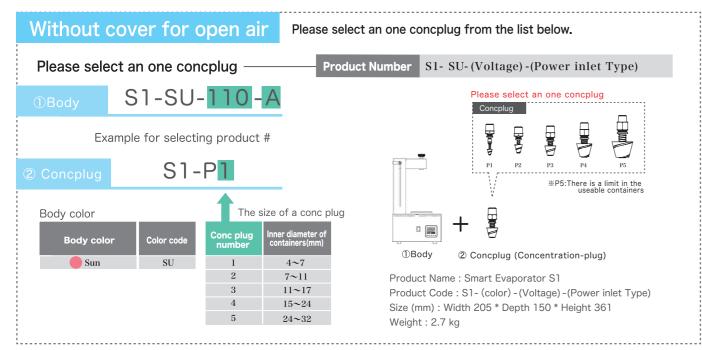
How to select Smart Evaporator





Accessories

Vacuum pump

We have a recommending vacuum pump.

Product Specifications

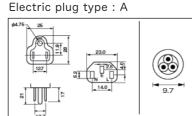
Heating control temperature : Room temperature ∼ 100°C

Operating humidity limits: From 20 % to 80 % (No condensation)

Recommendation type of pump: Diaphragm vacuum pump 13 Please contact and ask local distributors for details. 15 33 50

Need the flow rate of the

vacuum pump



*Please note that the product specification is subjected to the alternation without any notice

Don't use cold trap with "liquid nitrogen" because it could cause an explosion due to the liquefaction of oxygen in air.

No.18

■ Distributor



■Manufacturer

BioChromato

BioChromato,Inc.

1-12-19 Honcho, Fujisawa, Kanagawa-ken 251-0053JAPAN TEL:0081-466-23-8382 Fax:0081-466-23-8279 http://www.bicr.co.jp/e/ E-mail:info@bicr.co.ip

Introducing!







More than 200 institutions in Japan have been using the Smart Evaporator in their labs since its launch. Now it has been updated with multiple functions requested by our customers.

Easy concentration of small volume samples Convenient concentrator with simple operation

Smart Evaporator











Visit our Website for details and secrets of this new concentrator.



Easy concentration of small volume samples

S Smart Evaporator











Short cut for tedious concentration procedures

Useful in many different research fields

■Organic Chemistry **■**Materials Science

■ Environmental Analysis **■**Bio Chemistry

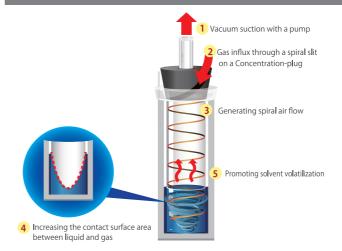
■Polymer Chemistry

etc

Used For

- ☐ Compounds after organic synthesis
- ☐ Solvent removal after NMR
- ☐ Samples after fractionation and purification
- ☐ Samples after solid extraction

Vacuum-assisted Vortex Concentration



Vortex-assisted Vortex Concentration increases the contact surface area between liquid and gas, which promotes the speed of concentration.

In addition, this enables to concentrate samples without heating at high temperature. (*Liquid temperature should be higher than room temperature to prevent condensation within a container.)

Reference (Concentration speed)

	Solvent / Capacity	Flow rate	26℃	40℃	70°C
	Hexane / 5 ml (20 ml vial)	15L/min	5 min	3 min	3 min
	Acetone / 5 ml (20 ml vial)	15L/min	7 min	4 min	3 min
	Ethyl acetate / 5 ml (20 ml vial)	15L/min	9min	6 min	5 min
	Acetonitrile/ 5 ml (20 ml vial)	15L/min	18 min	9 min	8 min
	Methanol / 5 ml (20 ml vial)	15L/min	31 min	10 min	6 min
	Ethanol /5 ml (20 ml vial)	15L/min	31 min	10 min	6 min
	*Deionized Water / 5 ml (20 ml vial)	15L/min	95 min	49 min	28 min
	*DMF / 5 ml (20 ml vial)	15L/min	68 min	43 min	24 min
	*DMSO / 5 ml (20 ml vial)	15L/min	241 min	195 min	69 min
+	*NMP / 5 ml (20 ml vial)	15L/min	N/A	N/A	71 min

* Gas purge data



Plugs with a spiral slit can prevent bumping by eliminating high vacuum state and generating spiral air flow to stir whole samples.



Efficient sample recovery



It only takes a few minutes to start concentration by turning a control valve after setting up samples.



DMSO & DMF concentration



The unique concentration principle, spiral air flow, enables us to efficiently concentrate high-boiling temperature solvents, such as DMSO, DMF and water, without heating. (Keep the temperature of samples higher than that of room temperature to avoid condensation.)

Reference (Concentration speed)

Solvent / Capacity	40℃	70℃	
*DMSO / 1 ml (20 ml vial)	94mim	38 _{mim}	

* Gas purge data

Compatible with various containers



Tapered concentration plugs are compatible with more than 500 different containers such as vials and micro tubes etc.

